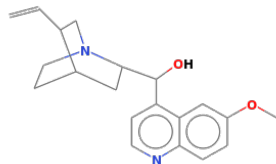


## NIST Chemistry WebBook, SRD 69

## Quinine

- **Formula:**  $C_{20}H_{24}N_2O_2$
- **Molecular weight:** 324.4168
- **IUPAC Standard InChI:** InChI=1S/C20H24N2O2/c1-3-13-12-22-9-7-14(13)10-19(22)20(23)16-6-8-21-18-5-4-15(24-2)11-17(16)18/h3-6,8,11,13-14,19-20,23H,1,7,9-10,12H2,2H3  **InChI**  
v 1.06
- **IUPAC Standard InChIKey:** LOUPRKONTZGTKE-UHFFFAOYSA-N 
- **CAS Registry Number:** 130-95-0
- **Chemical structure:**



This structure is also available as a [2d Mol file](#)

- **Stereoisomers:**
  - [Quinidine](#)
- **Other names:** Cinchonan-9-ol, 6'-methoxy-, (8 $\alpha$ ,9R)-; (-)-Quinine; Chinine; 6-Methoxycinchonine; 2-Quinuclidinemethanol,  $\alpha$ -(6-methoxy-4-quinolyl)-5-vinyl-; Chinin;  $\alpha$ -(6-Methoxy-4-quinolyl)-5-vinyl-2-quinuclidinemethanol; 6'-Methoxycinchonine; Cinchonan-9-ol, 6'-methoxy-, (8 $\alpha$ ,9R)-; (8S,9R)-Quinine; 6'-Methoxycinchonidine; (8S,9R)-6'-Methoxycinchonan-9-ol; NSC 192949
- **Permanent link** for this species. Use this link for bookmarking this species for future reference.
- **Information on this page:**
  - [Mass spectrum \(electron ionization\)](#)
  - [References](#)
  - [Notes](#)
- **Other data available:**
  - [Gas Chromatography](#)
- **Options:**
  - [Switch to calorie-based units](#)

## Data at NIST subscription sites:

- [NIST / TRC Web Thermo Tables, professional edition \(thermophysical and thermochemical data\)](#)

NIST subscription sites provide data under the [NIST Standard Reference Data Program](#), but require an annual fee to access. The purpose of the fee is to recover costs associated with the development of data collections included in such sites. Your institution may already be a subscriber. Follow the links above to find out more about the data in these sites and their terms of usage.

## Mass spectrum (electron ionization)

Go To: [Top](#), [References](#), [Notes](#)

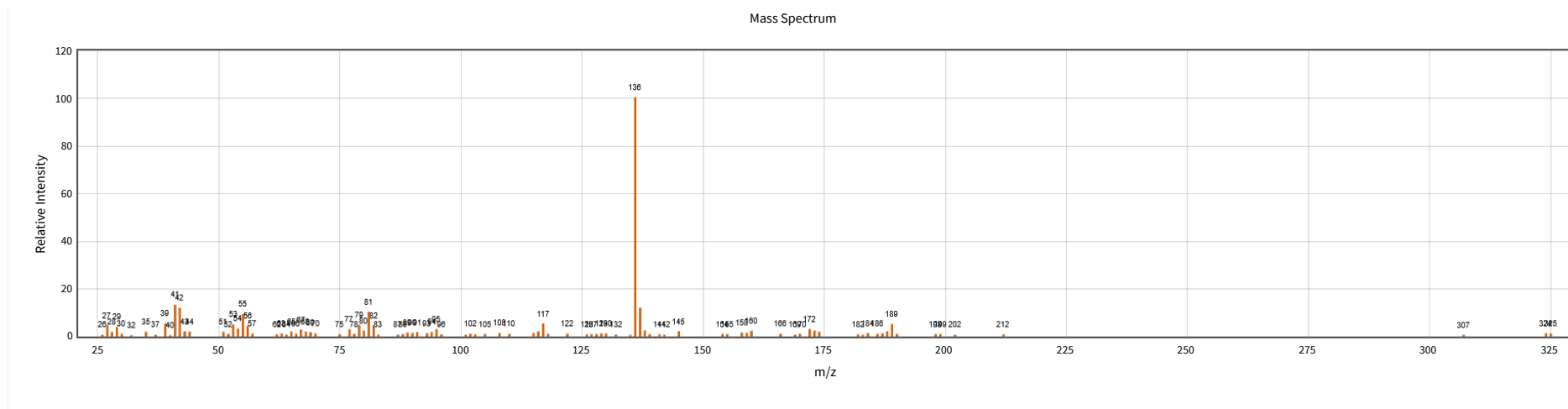
Data compilation [copyright](#) by the U.S. Secretary of Commerce on behalf of the U.S.A. All rights reserved.

Data compiled by: NIST Mass Spectrometry Data Center, William E. Wallace, director

## Spectrum

Plot | [Help / Software credits](#)

Quinine



## Additional Data

View [image of digitized spectrum](#) (can be printed in landscape orientation).

Due to licensing restrictions, this spectrum cannot be downloaded.

**Owner** NIST Mass Spectrometry Data Center  
Collection (C) 2014 copyright by the U.S. Secretary of Commerce  
on behalf of the United States of America. All rights reserved.

**Origin** N.W. Davies, Centr. Sci. Lab., Univ. Tasmania, Hobart, Australia

**NIST MS number** 107180

All mass spectra in this site (plus many more) are available from the NIST/EPA/NIH Mass Spectral Library. Please see the following for information about [the library](#) and [its accompanying search program](#).

## References

Go To: [Top](#), [Mass spectrum \(electron ionization\)](#), [Notes](#)

Data compilation [copyright](#) by the U.S. Secretary of Commerce on behalf of the U.S.A. All rights reserved.

No reference data available.

## Notes

Go To: [Top](#), [Mass spectrum \(electron ionization\)](#), [References](#)

- Data from NIST Standard Reference Database 69: *NIST Chemistry WebBook*
- The National Institute of Standards and Technology (NIST) uses its best efforts to deliver a high quality copy of the Database and to verify that the data contained therein have been selected on the basis of sound scientific judgment. However, NIST makes no warranties to that effect, and NIST shall not be liable for any damage that may result from errors or omissions in the Database.
- [Customer support](#) for NIST Standard Reference Data products.

© 2026 by the U.S. Secretary of Commerce on behalf of the United States of America. All rights reserved.

Copyright for NIST Standard Reference Data is governed by the [Standard Reference Data Act](#).

